7.4.4 Efficiency Standards for Commercial PTACs and PTHPs (1)

Type	Size	Cooling Capacity (Btu/hr)	Efficiency Level (2)
PTAC	Standard	<7,000	EER = 11.7
		7,000-15,000	EER = 13.8 - (0.300 x Cap)
		>15,000	EER = 9.3
	Non-Standard	<7,000	EER = 9.4
		7,000-15,000	EER = 10.9 - (0.213 x Cap)
		>15,000	EER = 7.7
PTHP	Standard	<7,000	EER = 11.9
			COP = 3.3
		7,000-15,000	EER = 14.0 - (0.300 x Cap)
			COP = 3.7 - (0.052 x Cap)
		>15,000	EER = 9.5
			COP = 2.9
	Non-Standard	<7,000	EER = 9.3
			COP = 2.7
		7,000-15,000	EER = 10.8 - (0.213 x Cap)
			COP = 2.9 - (0.026 x Cap)
		>15,000	EER = 7.6
			COP = 2.5

Effeciency standards for water-cooled and evaporatively-cooled commercial package air conditioning and heating equipment (240,000 ≤ Btu/hr < 760,000) manufactured on or after January 10, 2011:

--with electric resistance heat or without heating: EER ≥ 11.0

--with all other types of heating: EER ≥ 10.8

Note(s): 1) PTAC = Packaged Terminal Air Conditioner. PTHP = Packaged Terminal Heat Pump. Effective for non-standard sized units manufac on or after September 30, 2010 and for standard sized units manufactured on or after September 30, 2012. 2) EER = Energy Efficiency COP = Coefficient of Performance. "Cap" means cooling capacity in thousand Btu/hr at 95 degree F outdoor dry-bulb temperature.

Source(s): Title 10, Code of Federal Regulations, Part 431 - Energy Efficiency Program for Certain Commercial and Industrial Equipment, Subpart F - Commercial Conditioners and Heat Pumps. January 1, 2010.

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